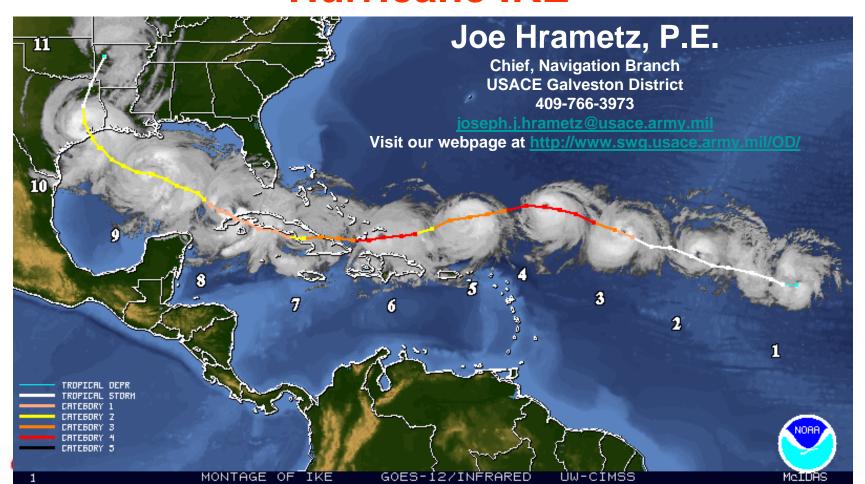




NATIONAL DREDGING TEAM MEETING Emergency Contingency Planning Hurricane IKE







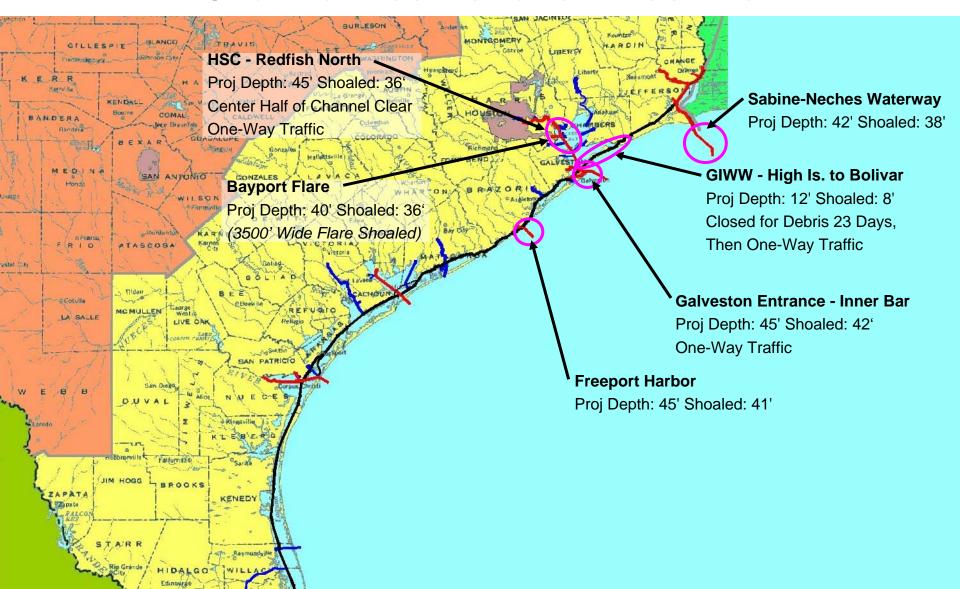
2008 HURRICANE DAMAGES.....

- Entire Texas coast impacted by 3 hurricanes and 1 tropical storms
- Damages estimated at \$261 M +++
- Hardest hit areas Sabine, Houston Galveston Bay Complex, Freeport, GIWW- High Island to Bolivar





Channel Restrictions – Post Ike







LESSONS LEARNED: CREATIVE MANAGEMENT

Four main areas to address:

- Procurement method
- Dredging/Placement Areas
- Debris Removal
- Environmental coordination





Procurement Methods

- Modified existing dredging contracts
- Issued new dredging contracts
- Issued MIPR to U.S. Navy for Debris Removal
- Issue Multiple Award Contract (MATOC) to repair levees and erosion protection
- Issue architect engineering services contracts to develop plans and specifications for levee repairs
- Using contract capacity from Omaha District emergency rapid response contract to remove debris





DREDGING METHODS & PLACEMENT AREA PLANS

- Hopper dredge replaced pipeline dredge
- Beach nourishment vs. confined disposal
- Confined disposal vs. ocean disposal
- Coordinated pipeline routes





Debris Removal

- In the channel
- Inside Placement Areas
- Along the waterway
- Hazardous and toxic waste





ENVIRONMENTAL

Coordinate new placement plan taking into account:

- Grain size analysis & sediment testing
- Texas Commission on Environmental Quality chemical contamination concerns
- State Historic Preservation Officer concerns of possible historical shipwrecks
- USFWS concerns of piping plovers and nesting sea turtles
- Coordination with EPA for Ocean Dredge Material Disposal Site and testing to comply with Marine Protection Research & Sanctuary Act
- Coordination with NMFS for hopper dredging within sea turtle window













Before & After Bolivar Peninsula







GIWW – High Island to Bolivar

Photo taken: 30 Sep 08 by LFS

PA 41 Debris on Levee









GIWW – High Island to Bolivar

PA 40
Levee Fronting Channel
Significant Erosion and Debris

Photo taken: 30 Sep 08 by LFS

Breach Through Levee

Photo taken: 30 Sep 08 by LFS



Photo taken: 30 Sep 08 by LFS





GIWW – High Island to Bolivar

PA 39
Shrimp Vessel &
Container on Levees

Across PA 39
Car in Marsh







PA 39
Shrimp Vessel on
Levees

GIWW – High Island to Bolivar

PA 38
Debris and House









GIWW – High Island to Bolivar

Photo taken: 30 Sep 08 by LFS

PA 35
Levee Fronting Channel
Significant Erosion and ACM
Damage







Hurricane Ike - Placement Area #15

Houston Ship Channel PA-15



Custodians of the Coast





HSC - Mid-Bay Placement Area



















Custodians of the Coast

















Custodians of the Coast





PLANNING FOR THE NEXT "IKE"

- Partnering with the dredging industry to develop an emergency dredging MATOC contract
- Exchange lessons learned with other Corps coastal districts
- Continue to improve communication with our federal and state resource agencies
- Continue to value and develop our partnerships with sponsors, Coast Guard and waterway users
- Execute generic MOA's with sponsors to dredge emergency shoal at port docks

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